Solve the given system using substitution and/or elimination. Classify the system as having one solution, no solutions, or infinite solutions. Check your answer both algebraically and graphically.

$$\left\{ \begin{array}{lcl} \frac{2}{3}x - \frac{1}{5}y & = & 3 \\ \frac{1}{2}x + \frac{3}{4}y & = & 1 \end{array} \right.$$

Exercise 1 Classify this system as having one solution, no solutions, or infinite solutions.

Multiple Choice:

- (a) one solution \checkmark
- (b) no solutions
- (c) infinite solutions

Exercise 1.1 The solution to this system is $\left(\frac{49}{12}, -\frac{25}{18} \right)$.